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APPLICATION N	D. 1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/611,447		07/06/2000	Guo-Qiang Wang	91436-265	6335
22463	7590	03/21/2005		EXAMINER	
*	AND BIG		MILLS, DONALD L		
	00 BOX 11		ART UNIT	PAPER NUMBER	
	O, ON M	5G2K8	2662		
CANADA			DATE MAILED: 03/21/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	Application No. Applican		nt(s)				
		09/611,4	147	WANG ET AL.					
	Office Action Summary	Examine	er	Art Unit					
		Donald L	. Mills	2662					
Period fo	- The MAILING DATE of this communica r Reply	tion appears on th	ne cover sheet v	vith the correspondence a	ddress				
THE N - Exten after 3 - If the - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICAL sions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communical from the mailing date of this communical from the mailing date of this communical from the maximum statute of the reply is specified above, the maximum statute of the reply within the set or extended period for reply will, eply received by the Office later than three months after digital patent term adjustment. See 37 CFR 1.704(b).	ATION. 7 CFR 1.136(a). In no ecation. ays, a reply within the state or period will apply and well by statute, cause the ap	vent, however, may a atutory minimum of th will expire SIX (6) MO plication to become A	reply be timely filed irty (30) days will be considered tim NTHS from the mailing date of this NBANDONED (35 U.S.C. § 133).	ely. communication.				
Status									
1)⊠	Responsive to communication(s) filed o	on <u>04 J</u> anuary 200	<u>05</u> .						
·									
3)□									
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)⊠	□ Claim(s) 1-10,16,18-20,22 and 23 is/are pending in the application.								
4	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)□	Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1-10,16,18-20,22 and 23</u> is/are rejected.								
·	Claim(s) is/are objected to.								
8)□	Claim(s) are subject to restrictio	n and/or election	requirement.						
Applicati	on Papers								
9) 🗌 -	The specification is objected to by the E	xaminer.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11)[The oath or declaration is objected to b	y the Examiner. N	lote the attache	ed Office Action or form F	PTO-152.				
Priority u	nder 35 U.S.C. § 119								
a)[Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of the application from the International ee the attached detailed Office action for the certified copies of the certified copies of the attached detailed Office action for the attached detailed Office action for the certified copies of the certified copies o	cuments have be cuments have be the priority docum I Bureau (PCT Ru	en received. en received in a nents have bee ule 17.2(a)).	Application No n received in this Nationa	al Stage				
Attachment	(a)								
_	e of References Cited (PTO-892)		4) Interview	Summary (PTO-413)					
2) Notice	of Draftsperson's Patent Drawing Review (PTO		Paper No	(s)/Mail Date	ro-152)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:									

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-10, 16, 18-20, 22, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fatchi et al. (US 6,600,583 B1), hereinafter referred to as Fatchi, in view of Jamoussi (Internet Draft, "Constraint-Based LSP Setup Using LDP").

Regarding claims 1-3, 6, 9, 10, 16, 19, 20, 22, and 23 Fatehi discloses an optical Internet router that uses optical tags to send and receive command and response messages between routers of an optical network, which comprises:

Assigning an optical label to a channel group, said channel group using one of said fiber optic links and comprising a plurality of channels (Referring to Figure 13, the available wavelength update message corresponds to series of channels utilizing fiber optic links. See column 8, lines 54-63;)

Encoding said optical label so as to comprise a value field, where said value field comprises a label component and where said label component comprises an indication of whether each channel of said plurality of channels is available for use in a label switched path (Referring to Figure 13, the available wavelength update message updates the router with

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number of wavelengths available at the router to the intended router 1304 and the ID of the available wavelengths 1305-1307. See column 8, lines 54-63.)

Fatchi does not disclose encoding said optical label to comprise a type field, a length field and a value field.

Jamoussi teaches a method of constraint based routing (CR) in MPLS, which defines TLV encoding that includes a type, length, and value field (See page 15, section 4.3.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement the router messaging system of Fatehi utilizing the MPLS method of Jamoussi.

One of ordinary skill in the art at the time of the invention would have been motivated to do so in order to optically tag and read messages without sacrificing transmission efficiency and throughput capacity in heterogeneous systems. An added benefit of doing so would allow one to comply with the well-known standard of MPLS.

Regarding claim 4 as explained in the rejection statement of claim 3, Fatchi and Jamoussi teach all of the limitations of claim 3 (parent claim).

Fatchi does not disclose wherein current availability of bandwidth on each of said plurality of channels is represented by a single bit.

Fatchi teaches the available wavelength update message updates the router with the number of wavelengths available at the router to the intended router 1304 and the ID of the available wavelengths 1305-1307 (See column 8, lines 54-63.)

It would have been obvious to one of ordinary skill at the time of the invention to implement the ID of available wavelength of Fatchi as a single bit. One of ordinary skill in the

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art at the time of the invention would have been motivated to do so in order to reduce system complexity when only two wavelengths are utilized.

Regarding claim 5 as explained in the rejection statement of claim 3, Fatchi and Jamoussi teach all of the limitations of claim 3 (parent claim).

Fatchi does not disclose wherein a bit value of zero for said single bit indicates currently available bandwidth on a given one said plurality of channels.

Fatchi teaches the available wavelength update message updates the router with the number of wavelengths available at the router to the intended router 1304 and the ID of the available wavelengths 1305-1307 (See column 8, lines 54-63.)

It would have been obvious to one of ordinary skill at the time of the invention to implement the ID of available wavelength of Fatchi as a single bit, thereby having an ID value of zero representing a first available channel. One of ordinary skill in the art at the time of the invention would have been motivated to do so in order to reduce system complexity when only two wavelengths are utilized.

Regarding claim 7, the primary reference further teaches wherein said attribute comprises an indication of a service type of said second network (Referring to Figure 13, number of wavelengths available at the router to the intended router 1304.)

Regarding claim 8, the primary reference further teaches wherein said attribute comprises an indication of a control protocol of said second network (Referring to Figure 13, address of intended router to receive this message 1303.)

Response to Arguments

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3. Applicant's arguments with respect to claims 1-10, 16, 18-20, 22 and 23 have been

considered but are moot in view of the new ground(s) of rejection.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Donald L Mills whose telephone number is 571-272-3094. The

examiner can normally be reached on 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hassan Kizou can be reached on 571-272-3088. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Donald L Mills

March 10, 2005

PRIMARY EXAMINED